

Appln No.: 09/674,975
Amendment Dated: October 29, 2003
Reply to Office Action of July 29, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-8 (cancelled)

9. (currently amended) A method for active vaccination against B cells expressing CD20 comprising administering to a patient a vaccine composition comprising at least an immunogenic portion of the extracellular domain of CD20, or a xenogeneic homolog thereof, coupled to ~~or administered with an~~ a carrier protein effective to break tolerance to the transmembrane protein and a pharmaceutically acceptable adjuvant.

10. (original) The method claim 9, wherein the carrier protein is keyhole limpet hemocyanin.

11. (original) The method of claim 9, wherein the vaccine composition comprises a peptide having the sequence given by Seq. ID No 1 or 2.

12. (currently amended) A method for treatment of B cell non-Hodgkin's lymphoma, comprising administering to a patient suffering from B cell non-Hodgkin's lymphoma a vaccine composition comprising at least an immunogenic portion of the extracellular domain of CD20, or a xenogeneic homolog thereof, coupled to ~~or administered with an~~ a carrier protein effective to break tolerance to ~~the transmembrane protein~~ CD20 and a pharmaceutically acceptable adjuvant.

13. (currently amended) A vaccine composition comprising at least an immunogenic portion of the extracellular domain of the transmembrane protein, or a xenogeneic homolog thereof, coupled to ~~or administered with an~~ a carrier protein effective to break tolerance to the transmembrane protein and a pharmaceutically acceptable adjuvant, wherein the transmembrane protein is CD20.

14-15 (canceled)

16. (previously presented) The composition of claim 13, wherein the vaccine composition comprises a peptide having the sequence given by Seq. ID No 1 or 2.

17. (original) The composition of claim 13, wherein the carrier protein is keyhole limpet hemocyanin.

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18 - 20. (canceled)

21. (previously presented) The method of claim 12, wherein the vaccine composition comprises a peptide having the sequence given by Seq. ID No. 1 or 2.

22. (previously presented) The method of claim 21, wherein the carrier protein is keyhole limpet hemocyanin.

23. (previously presented) The method of claim 12, wherein the carrier protein is keyhole limpet hemocyanin.

24. (previously presented) The method of claim 16, wherein the carrier protein is keyhole limpet hemocyanin.